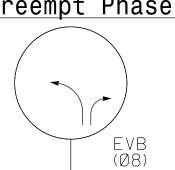
EV Preempt Phases



PHASING DIAGRAM DETECTION LEGEND DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP)

UNSIGNALIZED MOVEMENT

PEDESTRIAN MOVEMENT

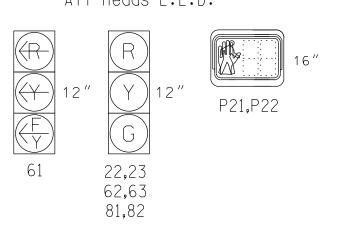


TABLE OF	LE OF OPERATION				
		PH	4SE		
SIGNAL	0	a	E	F	
EVCE		שן	\ \/		

FACE	+ 6	8	B B	ASH	
22,23	G	R	R	Υ	
61	<del>F</del>	<del></del>	<del></del>	<b>←</b>	
62,63	G	R	R	Υ	
81,82	R	G	G	R	
P21 <b>,</b> P22	W	D-W	D-W	DRK	

SIGNAL FACE I.D.

All Heads L.E.D.



2033 SOFTWA	ARE w/ 2070	CONTROLLER	
LOOP & DETECTO	R UNIT INST	<b>FALLATION CHAP</b>	۲۲

DETECTOR PROGRAMMING

INDUCTIVE LOOPS										ATTRIBUTES								S	STATU		
							TI <i>l</i>	۷I۲	1G		1	2	3	4	5	6	7	8	OOPS		
LOOP NO.	SIZE (ft)	TURNS	DIST. FROM STOPBAR (f+)	Z	EXISTING	NEMA PHASE	DELAY		CAR (STRE		FULL TIME DELAY	PEDESTRIAN CALL	RESERVED	COUNT	EXTENSION	TYPE 3	CALLING	ALTERNATE	SYSTEM L	NEW	EXISTING
2A	6×6	*	70	*	_	2	- SEC	) ·	_	SEC.	_	_	ı	I	Χ	_	Χ	_	_	*	-
6A	6×6	*	70	*	-	6	- SEC	<b>.</b>	_	SEC.	_	_	_	-	Χ	_	X	-	_	*	-
6B	6×40	*	0	*	-	6	- SEC	٥.	-	SEC.	_	-	-	I	Χ	-	Χ	-	-	*	-
8.4	6×40	*	0	*	-	8	3 SE(	) .	-	SEC.	-	-	-	ı	Χ	-	X	-	-	*	-
8B	6×40	*	0	*	-	8	15 SEC	Ç.,	_	SEC.	_	-	-	-	Χ	-	X	-	-	*	-
PEDESTR	RIAN DE	TECTIO	N																		
P21 P22	Ν/Δ	N/A	N/A	Τχ	_	2	- SEC		_	SEC.	_	Χ	_	_	_	_	_	_	_	X	_

\* Video Detection Zone

2 Phase Fully Actuated W/ EV Preemption (Durham Signal System)

NOTES

PROJECT REFERENCE NO.

U-3308

|Sig. 31.0|

1. Refer to "Road Standard Drawings NCDOT" dated January 2012, "Standard Specifications for Roads and Structures" dated January 2012.

2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer

3. Set all detector units to presence mode.

4. Locate new cabinet as to not obstruct sight distance of vehicles turning right on red.

5. Program all timing information into phase banks 1,2, and 3 unless otherwise noted.

6. Set phase bank 3 maximum limit to 250 seconds for phases used.

7. Omit "WALK" and flashing "DON'T WALK" with no pedestrian

8. Program pedestrian heads to countdown the flashing "Don't Walk" time.

9. Pavement markings are existing.

**PROPOSED** 

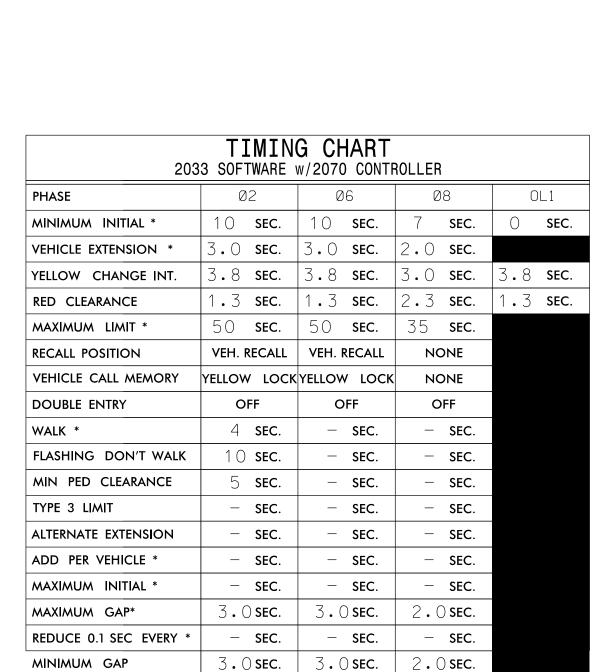
10. This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.

11. Upon completion of Emergency Vehicle Preemption, controller returns to normal operation.

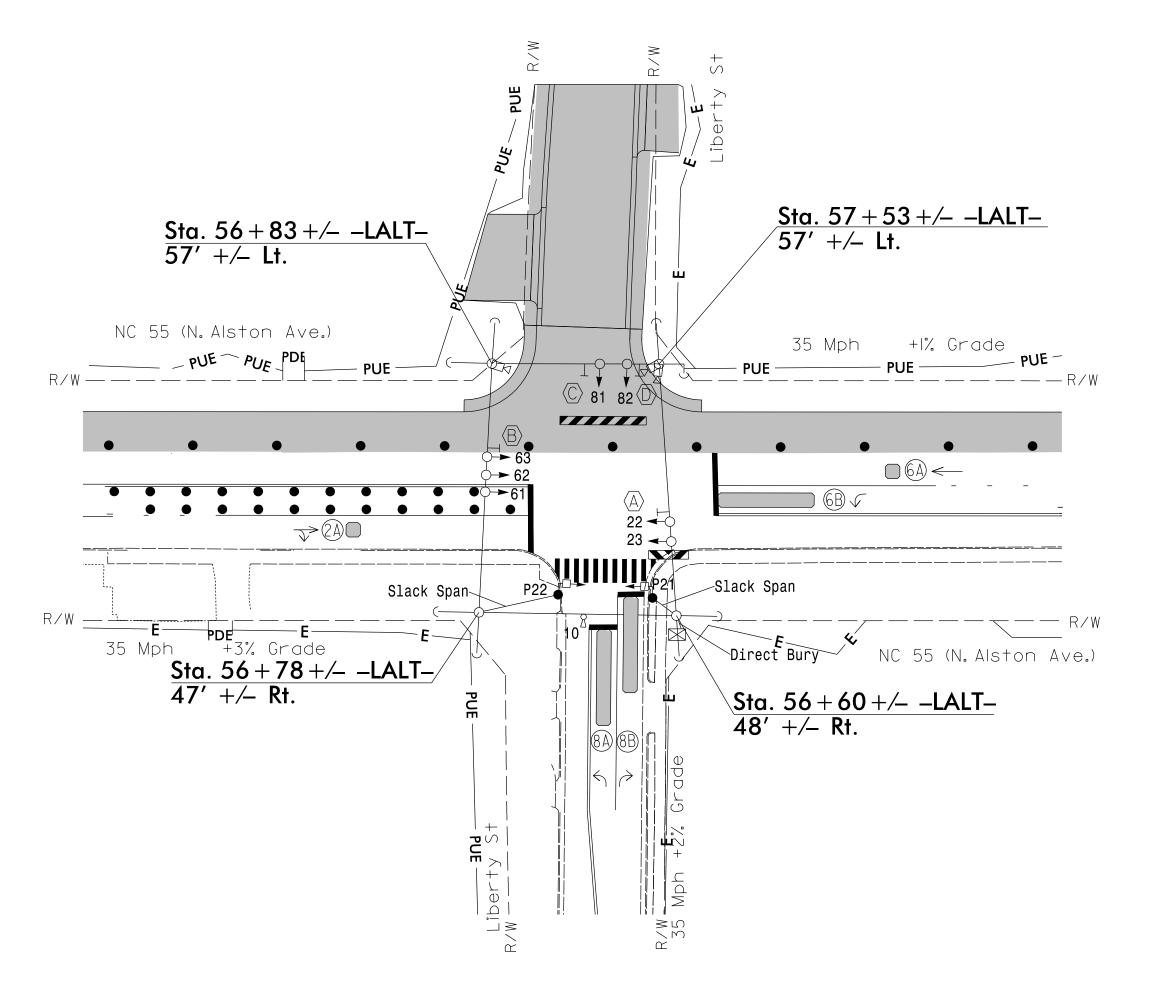
12. Maximum times shown in timing chart are for free-run

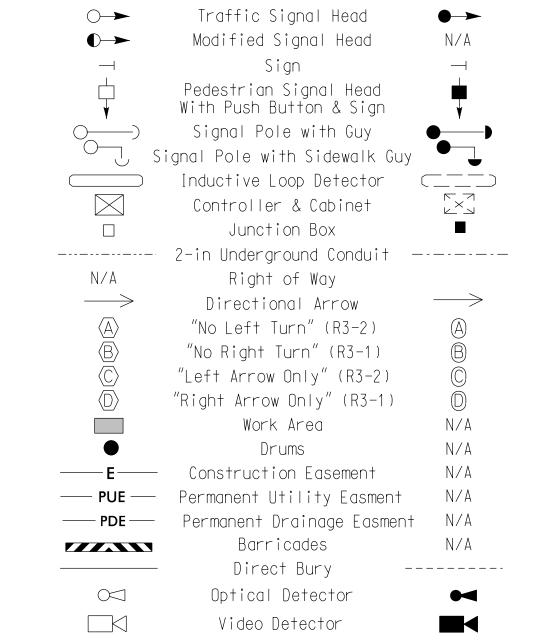
operation only. Coordinated signal system timing values supersede these values.

FUNCTION	EVB (SECONDS)
DELAY BEFORE PREEMPT	0
MIN. PED. CLEAR BEFORE PREEMPT	*
MIN. GREEN BEFORE PREEMPT	1
CLEARANCE TIME	2
PREEMPT EXTEND**	2.0
** See Timing Chart for Min Ped Cl ** Program Timing on Optical Detec	



phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds



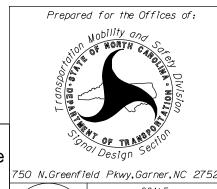


Video Detection Area

LEGEND

**EXISTING** 

Signal Upgrade - Temporary Design 1 (TMP Phase 1, Steps 1-10)



NC 55 (North Alston Avenue) Liberty St

Division 5 Durham County Durham PLAN DATE: September 2014 REVIEWED BY: J Hochanadel

750 N.Greenfield Pkwy, Garner, NC 27529 PREPARED BY: R Drayton REVIEWED BY: REVISIONS

INIT. DATE

SEAL DATE SIG. INVENTORY NO. 05-1029T1

SEAL



1025 Wade Avenue Raleigh, NC 27605 Tel:919-789-9977 Fax:919-789-9591

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